IN THE CLAIMS

1. (previously presented) A communication system, comprising:

a first communication module adapted to: receive a first type of communication signal, convert the first type of communication signal to a second type of communication signal and transmit the second type of communication signal to a second communication module;

the second communication module disposed on a building and adapted to receive the second type of communication signal from the first communication module, and transmit the second type of communication signal inside the building to a third communication module at a power level based on a signal-to-interference level;

the third communication module located inside the building and adapted to receive the second type of communication signal, convert the second type of communication signal into the first type of communication signal, and transmit the first type of communication signal and further wherein, the third communication module is also configured to receive the first type of communication signal, convert the first type of communication signal into the second type of communication signal and transmit the second type of communication signal to the second communication module;

the second communication module is configured to receive the second type of communication signal from the third communication module and transmit the second type of communication signal to the first communication module; and

the first communication module is configured to receive the second type of communication signal, convert the second type of communication signal to the first type of communication signal and transmit the first type of communication signal.

2. (canceled)

3. (previously presented) The system of claim 1, wherein:

the third communication module comprises communication processing circuitry that is configured to validate the second type of communication signal; and

the third communication module only transmits the type of communication signal if the second type of communication signal is validated by the communication processing circuitry.

4. (previously presented) The system of claim 1, wherein the first type of communication signal is one of:

a mobile communication signal; and

a legacy wireless communication signal.

5. (previously presented) The system of claim 1, wherein the first type of communication signal is carried over at least one of:

an approximately 400 MHz frequency band;

an approximately 800 MHz frequency band;

an approximately 900 MHz band;

an approximately 1800 MHz band; and

an approximately 2 GHz frequency band.

6. (previously presented) The system of claim 1, wherein the second type of communication signal is a millimeter wave signal.

7. (previously presented) The system of claim 1, wherein the second type of communication signal is mounted inside a window of the building.

8. (original) The system of claim 1, wherein the second communication module is mounted outside a window of the building.

9. (original) The system of claim 1, wherein the second communication module is mounted inside a window of the building.

10. (original) The system of claim 1, wherein:

the second communication module comprises at least one antenna that is a low to moderate gain array antenna.

11. (original) The system of claim 10, wherein the low to moderate gain array antennas comprise interconnected beam-forming array patterns on both the outward and the inward facing sides, separated by an intervening ground plane.

12. (original) The system of claim 1, wherein:

the first communication module comprises communication processing circuitry that is configured to validate the first type of communication signal; and

the first communication module only transmits the second type of communication signal if the first type of communication signal is validated by the communication processing circuitry.

13. (original) The system of claim 12, wherein the communication processing circuitry validates the first type of communication signal if the first type of communication signal is an emergency telephone called placed or received by emergency personnel.

14. (original) The system of claim 1, wherein the first communication module is mounted on top of a vehicle.

15. (original) The system of claim 1, wherein the first communication module is mounted to a structure at ground level.

16. (original) The system of claim 1, wherein the first communication module is mounted to an elevated structure.

17. (original) The system of claim 1, wherein the first communication module comprises an antenna, wherein the antenna is a high gain fan beam antenna.

18. (original) The system of claim 1, wherein the system is configured for floor-to-floor communication.

19. (previously presented) A communication system, comprising:

a first communication module adapted to: receive a first type of communication signal, convert the first type of communication signal to a second type of communication signal and transmit the second type of communication signal to a second communication module;

the second communication module disposed on a building and adapted to receive the second type of communication signal from the first communication module, and transmit the second type of communication signal inside the building to a third communication module; and

the third communication module located inside the building and adapted to receive the second type of communication signal, convert the second type of communication signal into the first and further comprising a fourth communication module and a fifth communication module, wherein:

the third communication module is configured to:

receive a third communication signal;

convert the third communication signal into a third millimeter wave radio signal; and

transmit the third millimeter wave radio signal to the second communication module;

the second communication module is configured to:

receive the third millimeter wave radio signal;

transmit the third millimeter wave radio signal to the fourth communication module;

the fourth communication module is mounted to the side of the building at a different elevation than the second communication module and is configured to:

receive the third millimeter wave radio signal from the second communication module; and

transmit the third millimeter wave radio signal to the fifth communication module; and

the fifth communication module is located inside the building at a different elevation than the third communication module and is configured to:

receive the third millimeter wave radio signal;

convert the third millimeter wave radio signal into the third communication signal; and

transmit the third communication signal.

20. (original) A communication system as recited in claim 1, wherein the first communication signal is adapted to up-convert the first type of signal to the second type of signal.

21. (original) A communication system as recited in claim 1, wherein the first communication signal is adapted to down-convert the first type of signal to the second type of signal.

22. (original) A communication system as recited in claim 1, wherein the second communication module is on the top of the building.

23. (currently amended) ~~An apparatus~~ A communication system comprising:

a first communication module mountable to a side of a building; and

a second communication module mountable to the side of [[a]] the building on a different level of the building and the second communication module is configured to:

receive ~~a radio signal~~ radio signals from and transmit radio signals to the first ~~another~~ communication module ~~located on the side of the building~~ using an outward facing array of the second communication module, the radio signals ~~signal originating from an elevation different than the communication module and~~ propagated at least one of substantially upward and substantially downward along an outside surface of the building; and

transmit the radio signals ~~signal~~ into the building using an inward facing array of the communication module.

24. (currently amended) The ~~apparatus~~ communication system of claim 23, wherein the radio signal carries at least one of an up-converted mobile communication signal, an up-converted legacy wireless communication signal, and a millimeter wave radio signal.

25. (currently amended) A method comprising:

receiving at a first communication module a radio signal [[at]] transmitted from a second communication module, wherein the first and second communication modules are ~~module is~~ mounted to the side of a building at different elevations;[[,]] ~~wherein the radio signal originated from an elevation different than the communication module and~~

encoding the radio signal ~~is encoded~~ with a predetermined code based on the elevation from which the signal was transmitted and services priorities; and

transmitting the radio signal into the building based on the predetermined code such that the communication flow of the radio signal between different elevations is determined based on the predetermined code.

26. (previously presented) The method of claim 25, wherein the radio signal carries at least one of an up-converted mobile communication signal, an up-converted legacy wireless communication signal, a down-converted legacy wireless communication signal and a millimeter wave radio signal.

27. (canceled)

28. (previously presented) The method of claim 25, wherein the signal includes an indication of a floor of the building from which the signal was transmitted.